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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Comprehensive Assessment Information Rule

REPORTING FORM

When completed, send this form to:

Document Processing Center
Office of Toxic Substances, TS-790
U.S. Environmental Protection Agency
401 M Street, SW
Washington, DC 20460
Attention: CAIR Reporting Office

For Agency Use Only:

Date of Receipt:

Document
Control Number:

Docket Number:

EPA Form 7710-52

| PART | A G | ENERAL REPORTING INFORMATION |
|------|------|--|
| 1.01 | Thi | s Comprehensive Assessment Information Rule (CAIR) Reporting Form has been |
| CBI | com | pleted in response to the <u>Federal Register Notice of $[1/2]$ $[2/2]$ $[8/8]$ year</u> |
| [_] | a. | If a Chemical Abstracts Service Number (CAS No.) is provided in the Federal |
| | | Register, list the CAS No $[\underline{c}]\underline{c}]\underline{c}]\underline{c}]\underline{c}]\underline{c}]\underline{c}]\underline{c}]$ |
| | b. * | If a chemical substance CAS No. is not provided in the <u>Federal Register</u> , list either (i) the chemical name, (ii) the mixture name, or (iii) the trade name of the chemical substance as provided in the <u>Federal Register</u> . |
| | | (i) Chemical name as listed in the rule |
| | | (ii) Name of mixture as listed in the rule |
| | | (iii) Trade name as listed in the rule |
| | c. | If a chemical category is provided in the <u>Federal Register</u> , report the name of the category as listed in the rule, the chemical substance CAS No. you are reporting on which falls under the listed category, and the chemical name of the substance you are reporting on which falls under the listed category. |
| | | Name of category as listed in the rule |
| | | CAS No. of chemical substance [_]_]_]_]_]_]_]_]_]_]_]_[_] |
| | | Name of chemical substance |
| 1.02 | Ide | ntify your reporting status under CAIR by circling the appropriate response(s). |
| CBI | Man | ufacturer 1 |
| [_] | Imp | orter 2 |
| | Pro | cessor |
| | X/P | manufacturer reporting for customer who is a processor 4 |
| | X/P | processor reporting for customer who is a processor 5 |
| | | |
| | | |
| | | |
| | | |
| 1-1 | Mark | (X) this box if you attach a continuation sheet. |

| 1.03 | | |
|----------------|--|--|
| | Doe in | es the substance you are reporting on have an " x/p " designation associated with it the above-listed Federal Register Notice? |
| CBI | | S |
| 1.04 CBI | а. | Do you manufacture, import, or process the listed substance and distribute it under a trade name(s) different than that listed in the Federal Register Notice? Circle the appropriate response. |
| [_] | • | No |
| | b. | Check the appropriate box below: [] You have chosen to notify your customers of their reporting obligations |
| | | Provide the trade name(s) |
| | | You have chosen to report for your customers |
| | | [] You have chosen to report for your customers [] You have submitted the trade name(s) to EPA one day after the effective date of the rule in the Federal Register Notice under which you are reporting. |
| | If y | You have submitted the trade name(s) to EPA one day after the effective date of the rule in the Federal Register Notice under which you are |
| CBI | repo | [_] You have submitted the trade name(s) to EPA one day after the effective date of the rule in the Federal Register Notice under which you are reporting. you buy a trade name product and are reporting because you were notified of your |
| CBI | Trac | [_] You have submitted the trade name(s) to EPA one day after the effective date of the rule in the Federal Register Notice under which you are reporting. you buy a trade name product and are reporting because you were notified of your orting requirements by your trade name supplier, provide that trade name. |
| CBI | Trac Is t | You have submitted the trade name(s) to EPA one day after the effective date of the rule in the Federal Register Notice under which you are reporting. You have submitted the trade name(s) to EPA one day after the effective date of the rule in the Federal Register Notice under which you are reporting. You buy a trade name product and are reporting because you were notified of your orting requirements by your trade name supplier, provide that trade name. |
| CBI | Trac Is t | You have submitted the trade name(s) to EPA one day after the effective date of the rule in the Federal Register Notice under which you are reporting. You buy a trade name product and are reporting because you were notified of your orting requirements by your trade name supplier, provide that trade name. MA the trade name product a mixture? Circle the appropriate response. |
| <u>CBI</u> [_] | Trace Is to Yes No . | You have submitted the trade name(s) to EPA one day after the effective date of the rule in the Federal Register Notice under which you are reporting. You buy a trade name product and are reporting because you were notified of your orting requirements by your trade name supplier, provide that trade name. N/A |
| CBI [_]] | Trace Is to Yes No . Certsign | You have submitted the trade name(s) to EPA one day after the effective date of the rule in the Federal Register Notice under which you are reporting. You buy a trade name product and are reporting because you were notified of your orting requirements by your trade name supplier, provide that trade name. The trade name product a mixture? Circle the appropriate response. 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| 1.05 CBI [_] | Trace Is to Yes No . Certsign "I hente | You have submitted the trade name(s) to EPA one day after the effective date of the rule in the Federal Register Notice under which you are reporting. You buy a trade name product and are reporting because you were notified of your orting requirements by your trade name supplier, provide that trade name. Ale name |

| 1.07 | Exemptions From Reporting I | f vou ha | ve pro | vided EPA or an | other F | ederal agency |
|------|-----------------------------------|----------|----------|-------------------|-----------|--------------------|
| 1.07 | with the required information | on a CAI | R Repo | orting Form for | the lis | ted substance |
| CBI | within the past 3 years, and t | his info | rmatio | on is current, a | ccurate | , and complete |
| | for the time period specified | in the r | ule. 1 | then sign the ce | rtifica | tion below. You |
| [_] | are required to complete secti | on 1 of | this (| CAIR form and pro | ovide a | ny information |
| ·, | now required but not previously | v submit | ted. | Provide a copy | of any | previous |
| | submissions along with your Se | ction 1 | submis | sion. | • | • |
| | Submissions along with your se | | | | | |
| | "I hereby certify that, to the | best of | mv kr | owledge and bel | ief, al | l required |
| | information which I have not i | ncluded | in thi | s CAIR Reporting | g Form | has been submitted |
| | to EPA within the past 3 years | and is | curre | it, accurate, and | d comple | ete for the time |
| | period specified in the rule." | | | , | • | |
| | period operation in the real | | | | | |
| | | | | | | |
| | NA | | | | | |
| | NAME | | | SIGNATURE | | DATE SIGNED |
| | | | | | | |
| | | (|) | - | | |
| | TITLE | | _ ¬ | ELEPHONE NO. | | DATE OF PREVIOUS |
| | | | | | | SUBMISSION |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | . 1 | . |
| 1.08 | CBI Certification If you have | ve asser | ted an | y CBI claims in | this re | eport you must |
| | certify that the following sta | tements | truthi | ully and accurat | cera abi | ory to arr or |
| | those confidentiality claims when | nich you | have | asserted. | | |
| BI | | | | | · · · · · | |
| | "My company has taken measures | to prot | ect th | e confidentialii | ty of the | ne information, |
| | and it will continue to take the | nese mea | sures; | the information | is not | t, and has not |
| | been, reasonably ascertainable | by othe | r pers | ons (other than | govern | ment bodies) by |
| | using legitimate means (other | than dis | covery | based on a show | ving of | special need in |
| | a judicial or quasi-judicial pr | roceedin | g) wit | hout my company' | 's conse | ent; the |
| | information is not publicly ava | ailable | elsewh | ere; and disclos | sure of | the information |
| | would cause substantial harm to | my com | pany's | competitive pos | sition.' | • |
| | | | - | • | | |
| | , | | | | | |
| | N/A | | | | | |
| | NAME | | | SIGNATURE | | DATE SIGNED |
| | | | | | | |
| | | (|) | _ | | |
| | TITLE | - ` | <u> </u> | TELEPHONE NO. | | _ |
| | 11111 | | | 12231110112 1101 | | ₹ |
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| ART B | CORPORATE DATA |
|--------------|--|
| .09 | Facility Identification |
| - | Name [A]M]E]R]I]@ A N]_ E]L E]C]T R]O N.]_ E A 8 5.]_ Z N]C Address [3]O 3 _ R]I]@ H A E]D 5 O N.]_ R]O A D _]_]_]_]_] |
| | [<u>[]A]N</u>] <u>5</u>] <u>D</u>] <u>A</u>] <u>L</u>] <u>E</u>]_]_]_]_]_]_]_]_]_]_]_]]]] |
| | $[\underline{P}]\underline{A}] [\underline{I}]\underline{q}]\underline{\psi}]\underline{\psi}]\underline{6}] - [\underline{I}]\underline{\psi}]\underline{2}]\underline{q}]$ State |
| | Dun & Bradstreet Number |
| | EPA ID Number |
| | Employer ID Number |
| | Primary Standard Industrial Classification (SIC) Code |
| | 0ther SIC Code |
| | 0ther SIC Code |
| .10 | Company Headquarters Identification |
| BI | Name $[A] \in [L] = [L] \times [D] \times [D] \times [L] \times$ |
| _1 | Address [3]0 5 RII C H A R D S 0 U RIO A D I I I I I I I I I |
| | [[]]][]][]][]][][][][][][][][][][][][] |
| • | $[\underline{P}]\underline{A}] \qquad [\underline{I}]\underline{q}]\underline{\psi}\underline{\psi}\underline{\psi}\underline{\psi}\underline{\psi}\underline{\psi}\underline{\psi}\underline{\psi}\underline{\psi}\underline{\psi}$ |
| | Dun & Bradstreet Number |
| | Employer ID Number |

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* J > J

| .11 | Parent Company Identification |
|-----------|--|
| <u>BI</u> | Name $[A] \in [L] = [I] \times [D] \times [I] \times [D] \times [I] \times [D] \times$ |
| | [<u>[]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]</u> |
| | $[P]\overline{A}] [D]\overline{4}\overline{4}\overline{6}\overline{6}\overline{-}\overline{D}\overline{4}\overline{2}\overline{9}$ State |
| | Dun & Bradstreet Number $[0]0]-[2]3]4]-[6]6]9]0$ |
| .12 | Technical Contact |
| BI | Name $[\underline{E}]\underline{D}]$ $]\underline{S}\underline{K}\underline{R}\underline{I}\underline{Z}\underline{I}\underline{I}$ $]\underline{I}$ $ \underline{I}$ $ $ |
| 1 | Title [E]NIVITIR] I EI I SIAI FIEI TIVI I TEICIH NITICITIAIN] |
| | Address $[3]0]5]$ R F E E A |
| | [<u>工]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]</u> |
| | $[\underline{P}]\underline{A}] \qquad [\underline{I}]\underline{q}]\underline{4}]\underline{4}]\underline{G}] - [\underline{I}]\underline{4}]\underline{2}]\underline{q}]$ State |
| | Telephone Number $[2]\overline{I}5$ - $[8]2]2$ - $[2]9]2$ |
| .13 | This reporting year is from $[0]\overline{3}[8]\overline{7}$ to $[0]\overline{2}[8]\overline{8}$ Mo. Year |
| | |

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| 1.14 | Facility Acquired If you purchased this facility during the reporting year, provide the following information about the seller: |
|------|---|
| CBI | Name of Seller [_]_]_]_]_]_]_]_]]]]]]]]]]]]]]]]]]]]]] |
| [_] | Mailing Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]]]]]]]]] |
| | [_1_1_1_1_1_1_1_1_1_1_1_1_1_1_1_1_1_1_1 |
| | [_]_] [_]]]_]_]_]_]_]_]]_]]]]]]]] |
| | Employer ID Number |
| | Date of Sale |
| | Contact Person [_]_]_]_]_]_]_]_]_]_]]]]]]]]]]]]]]]]]] |
| | Telephone Number |
| | |
| 1.15 | Facility Sold If you sold this facility during the reporting year, provide the following information about the buyer: |
| CBI | Name of Buyer []]]]]]]]]]]]]]]]]] |
| [_] | Mailing Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]]]]]]]]] |
| | [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_] |
| | [_]_] [_]_]_]_]_]]]]_]_] |
| - | Employer ID Number |
| | Date of Purchase |
| | Contact Person [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_] |
| | Telephone Number |
| | |
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| | - |
| | |
| [_] | Mark (X) this box if you attach a continuation sheet. |

| | ror each crassification fisted below, State the quantity of the was manufactured, imported, or processed at your facility during the | |
|------------|--|------------------|
| <u>ĆBI</u> | Classification | Quantity (kg/yr) |
| [_] | | 0 |
| | Manufactured | |
| | Imported | |
| | Processed (include quantity repackaged) | |
| | Of that quantity manufactured or imported, report that quantity: | |
| | In storage at the beginning of the reporting year | |
| | *For on-site use or processing | |
| | For direct commercial distribution (including export) | |
| | In storage at the end of the reporting year | |
| | Of that quantity processed, report that quantity: | |
| | In storage at the beginning of the reporting year | ·· UNK |
| | Processed as a reactant (chemical producer) | |
| | Processed as a formulation component (mixture producer) | |
| | Processed as an article component (article producer) | |
| | Repackaged (including export) | |
| | In storage at the end of the reporting year | |
| | In storage at the end of the reporting year track | • |
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[_] Mark (X) this box if you attach a continuation sheet.

| 0 | lixture If the listed substor a component of a mixture, publical. (If the mixture contact component chemical for all | provide the following info position is variable, rep | ormation for each component |
|-----------|--|---|---|
| <u></u>] | Component Name | Supplier Name | Average % Composition by Weight (specify precision, e.g., 45% ± 0.5%) |
| _ | TOLUEUE DIISOCYANATE | STEPAN CC. | 55% <u>`</u> |
| <u> </u> | CUK | STEPAN CC. | 45% |
| | | | |
| _ | | | |
| _ | | | |
| _ | | | Total 100% |

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| 2.04 | State the quantity of the listed substance that your facility manufactor processed during the 3 corporate fiscal years preceding the report descending order. | actured, in ting year | nported, in |
|-------------|---|--------------------------|-------------------------|
| CBI | | | |
| [<u></u> j | Year ending | . [<u>⑤] 골</u>] Mo. | [<u>용] 1</u>] Year |
| | Quantity manufactured | | kg |
| | Quantity imported | | |
| | Quantity processed | 9.1 | kg |
| | Year ending | [<u>运]글</u>] | [<u>ع] د</u>] Year |
| | Quantity manufactured | 0 | kg |
| | Quantity imported | 0_ | kg |
| | Quantity processed | 0 | kg |
| | Year ending | [<u>ට]ラ</u>] Mo. | [<u>동]</u>] Year |
| | Quantity manufactured | 0 | kg |
| | Quantity imported | | |
| | Quantity processed | 0 | kg |
| 2.05 CBI | Specify the manner in which you manufactured the listed substance. appropriate process types. | Circle al | 1 |
| [_] | Continuous process | | 1 |
| | Semicontinuous process | | |
| | Batch process | | 3 |
| | | y | |
| | | | |
| [_] | Mark (X) this box if you attach a continuation sheet. | | |

| 2:06 CBI | Specify the manner in appropriate process ty | which you pes. | processed t | he listed substance | . Circle all | |
|-------------|--|-------------------------|-------------|--|----------------|---------------------|
| [_] | Continuous process | | | | | |
| | Semicontinuous process | | | | | |
| | Batch process | | | | | 3° |
| 2.07 CBI | State your facility's substance. (If you ar question.) | name-plate e a batch | capacity f | for manufacturing or er or batch processo | processing the | e listed er this |
| [_] | Manufacturing capacity | | | | NA | kg/yr |
| | Processing capacity . | | | | | kg/yr |
| CBI | manufactured, imported year, estimate the incovolume. | rease or d | ecrease bas | sed upon the reporti | Process | sing |
| .—. | | Quanti | ty (kg) | Quantity (kg) | Quantity | 7 (Kg) |
| | Amount of increase | N | A | N/A | _ <u>~\/</u> _ | |
| | Amount of decrease | <u> </u> | Δ | Ма | N/A | |
| | | v | | | | |
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| | | | | | | |
| | Mark (X) this box if y | you attach | a continua | tion sheet. | | |

| [_] | Mark (X) this b | ox if you attach a continuation sheet. | | |
|---------------------------|--|--|---------------|--|
| | | | | |
| | | | * | • |
| | | | | |
| | Average monthly | inventory | . <u>N</u> A | kg |
| | Maximum daily i | nventory | <u>N/A</u> | kg |
| 2.10 <u>CBI</u> [_] | State the maxim substance that chemical. | um daily inventory and average monthly inventor was stored on-site during the reporting year in | ry of the lis | sted fabulk |
| | | Processed | NA | N/A |
| | | Manufactured | N/A | <u> </u> |
| | Process Type #3 | (The process type involving the 3rd largest quantity of the listed substance.) | ı | |
| | | Processed | | |
| | | Manufactured | N/A | <u> √</u> A |
| | Process Type #2 | (The process type involving the 2nd largest quantity of the listed substance.) | | |
| | | Processed | | <u>. 4 </u> |
| | ŧ | Manufactured | | |
| | Process Type #1 | (The process type involving the largest quantity of the listed substance.) | | |
| CBI | | | Days/Year | Average Hours/Day |
| | listed substance | e, specify the number of days you manufactured the reporting year. Also specify the average type was operated. (If only one or two opera | number of h | ours per |
| 2.09 | | argest volume manufacturing or processing proce | 111 DIOCE33CA | |

| CAS No. | Chemical Name | Byproduct, Coproduct or Impurity | (%) (specify ± | product |
|---|--|--|--------------------|---------|
| <u>⊿\/A</u> | A | | N/A | |
| | | | | |
| | and the second s | | | |
| | | + | | |
| 1 Use the follow | owing codes to desi | gnate byproduct, cop | product, or impuri | ty: |
| Use the follo B = Byproduct C = Coproduct I = Impurity | : | gnate byproduct, cop | product, or impuri | ty: |
| B = Byproduct C = Coproduct | : | gnate byproduct, cop | product, or impuri | ty: |
| B = Byproduct C = Coproduct | : | gnate byproduct, cop | product, or impuri | ty: |
| B = Byproduct C = Coproduct | : | gnate byproduct, cop | product, or impuri | ty: |

 $[\underline{ }]$ Mark (X) this box if you attach a continuation sheet.

| listed under column b., and the the instructions for further expl | types of end- lanation and | users for each prod an example.) | duct type. (Refer to |
|---|--|--|--|
| % of (Manufa Impo | Quantity actured, rted, or | % of Quantity Used Captively On-Site | Type of End-Users ² |
| Froduct Types | | <u>ə</u> s | Н |
| | | | |
| | | | |
| <pre>A = Solvent B = Synthetic reactant C = Catalyst/Initiator/Acceleration Sensitizer D = Inhibitor/Stabilizer/Scaver Antioxidant E = Analytical reagent F = Chelator/Coagulant/Sequestr G = Cleanser/Detergent/Degrease H = Lubricant/Friction modifier agent I = Surfactant/Emulsifier J = Flame retardant K = Coating/Binder/Adhesive and</pre> | tor/ N nger/ P cant R er S c/Antiwear T V d additives X | = Moldable/Castable = Plasticizer = Dye/Pigment/Colo = Photographic/Reg and additives = Electrodeposition = Fuel and fuel accepted and fuel accepted and fuel accepted and fuel accepted accepte | on/Plating chemicals dditives cals and additives r chemicals ol chemicals ds and additives additives ifier |
| I = Industrial | CS = Consum | | ч |
| CM = Commercial | •• | | |
| | total volume of listed substance quantity of listed substance used listed under column b., and the the instructions for further exp. a. % of Manufacture of | Tuse the following codes to designate product A = Solvent B = Synthetic reactant C = Catalyst/Initiator/Accelerator/ Sensitizer D = Inhibitor/Stabilizer/Scavenger/ Antioxidant E = Analytical reagent F = Chelator/Coagulant/Sequestrant G = Cleanser/Detergent/Degreaser H = Lubricant/Emulsifier J = Flame retardant K = Coating/Binder/Adhesive and additives 1 | # Vof Quantity Manufactured, Imported, or Processed # Voo |

| CBI | import, or process usin corporate fiscal year. import, or process for substance used during tused captively on-site types of end-users for explanation and an exam | For each use, spec each use as a perce he reporting year. as a percentage of each product type. | ntage of Also lis | the total vo t the quanti listed unde | olume of listed ity of listed substance er column b., and the |
|-----|--|---|---|---|--|
| | a. | b. | | c. | d. |
| | Product Types ¹ | % of Quantity Manufactured, Imported, or Processed | Used | Quantity Captively On-Site | Type of End-Users ² |
| | | | | | |
| | | | | | |
| | <pre>"Use the following code A = Solvent B = Synthetic reactang C = Catalyst/Initiator Sensitizer D = Inhibitor/Stabilis Antioxidant E = Analytical reagen F = Chelator/Coagulan G = Cleanser/Detergen H = Lubricant/Friction agent I = Surfactant/Emulsi J = Flame retardant K = Coating/Binder/Add</pre> | t c/Accelerator/ zer/Scavenger/ t t/Sequestrant t/Degreaser n modifier/Antiwear fier nesive and additives | L = Mold M = Plas N = Dye/ O = Phot and P = Electory Q = Fuel R = Expl S = Frag T = Poll U = Func V = Meta W = Rhectory | dable/Castab sticizer /Pigment/Col tographic/Re additives strodepositi l and fuel a losive chemi grance/Flavo lution contr stional flui al alloy and ological moder (specify) | cals and additives r chemicals ol chemicals ds and additives additives ifier |
| | ² Use the following cod I = Industrial CM = Commercial | CS = Cons | sumer | Ey) MILITAR | Α, |
| | Mark (X) this box if y | ou attach a continua | ation shee | | |

| olvent Synthetic react Latalyst/Initia Lensitizer nhibitor/Stabi ntioxidant | Final Product' Physical Form F | in Final Produ S-SO product types: L = Moldable/C M = Plasticize N = Dye/Pigmen | astable/Rubber and addrt/Colorant/Ink and addic/Reprographic chemicves |
|--|--|---|--|
| he following of solvent synthetic react atalyst/Initia ensitizer nhibitor/Stabintioxidant | Physical Form ² F- codes to designate ant tor/Accelerator/ | s Listed Substant in Final Product S-SO product types: L = Moldable/C M = Plasticize N = Dye/Pigmen O = Photograph | astable/Rubber and adrt/Colorant/Ink and adic/Reprographic chemives |
| he following of solvent synthetic react atalyst/Initia ensitizer nhibitor/Stabintioxidant | codes to designate | product types: L = Moldable/C M = Plasticize N = Dye/Pigmen O = Photograph | astable/Rubber and addr t/Colorant/Ink and add ic/Reprographic chemic |
| olvent Synthetic react Latalyst/Initia Lensitizer nhibitor/Stabi ntioxidant | ant tor/Accelerator/ | L = Moldable/C M = Plasticize N = Dye/Pigmen O = Photograph | r t/Colorant/Ink and ad ic/Reprographic chemi ves |
| olvent Synthetic react Latalyst/Initia Lensitizer nhibitor/Stabi ntioxidant | ant tor/Accelerator/ | L = Moldable/C M = Plasticize N = Dye/Pigmen O = Photograph | r t/Colorant/Ink and ad ic/Reprographic chemi ves |
| olvent Synthetic react Latalyst/Initia Lensitizer nhibitor/Stabi ntioxidant | ant tor/Accelerator/ | L = Moldable/C M = Plasticize N = Dye/Pigmen O = Photograph | t/Colorant/Ink and addic/Reprographic chemic ves |
| leanser/Deterg ubricant/Frict gent urfactant/Emul lame retardant oating/Binder/ he following c | ant/Sequestrant ent/Degreaser ion modifier/Antiv sifier Adhesive and addit odes to designate | Q = Fuel and for R = Explosive of S = Fragrance/No. Wear T = Pollution of U = Functional V = Metal allow W = Rheological tives X = Other (spectrum). | chemicals and additive Flavor chemicals control chemicals fluids and additives and additives landifier confections |
| as iquid queous solution aste lurry Powder | F3 = F4 = G = | Granules Other solid Gel | ····· |
| | odes to designate | the type of end-user | rs: |
| Industrial Commercial | CS = | Consumer | |
| | quid queous solution ste urry owder e following condustrial | quid F3 = queous solution F4 = ste G = queous with the stee G = queous | quid F3 = Granules [ueous solution |

| 2.15 CBI | | le all applicable modes of transportation used to deliver bulk shipments of ed substance to off-site customers. |
|-------------|-------|--|
| [_] | Truc | k |
| | Rail | car |
| | Barge | e, Vessel |
| | Pipe: | line |
| | Plan | B |
| | Other | (specify) No BULK SHIPMENTS |
| 2.16 CBI | or pr | omer Use Estimate the quantity of the listed substance used by your customerated by your customers during the reporting year for use under each categod use listed (i-iv). |
| [_] | Cate | gory of End Use |
| | i. | Industrial Products |
| | 1. | Chemical or mixture |
| | | Article |
| | ii. | Commercial Products |
| | 11. | Chemical or mixture |
| | | Article |
| | iii. | Consumer Products |
| | | Chemical or mixture |
| | | Article |
| | iv. | Other |
| | | Distribution (excluding export) |
| | | Export |
| | | Quantity of substance consumed as reactant |
| | | Unknown customer uses |
| | | |
| | | |
| [-1 | Mark | (X) this box if you attach a continuation sheet. |
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SECTION 3 PROCESSOR RAW MATERIAL IDENTIFICATION

| 3.01 CBI | Specify the quantity purchased and the average price paid for the listed substance for each major source of supply listed. Product trades are treated as purchases. The average price is the market value of the product that was traded for the listed substance. | | | | | |
|---------------------------|--|------------------|--------------------------|--|--|--|
| [_] | Source of Supply | Quantity (kg) | Average Price (\$/kg) | | | |
| | The listed substance was manufactured on-site. | 0 | 0 | | | |
| | The listed substance was transferred from a different company site. | 0 | <u>_</u> | | | |
| | The listed substance was purchased directly from a manufacturer or importer. | 9.57 | 144.79 | | | |
| | The listed substance was purchased from a distributor or repackager. | <u> </u> | 0 | | | |
| | The listed substance was purchased from a mixture producer. | 0 | | | | |
| | A STATE OF THE STA | deliver the lis | | | | |
| 3.02 <u>CBI</u> [_] | Circle all applicable modes of transportation used to your facility. Truck | | | | | |
| CBI | your facility. | | (1 | | | |
| CBI | your facility. Truck | | (1 2 | | | |
| CBI | your facility. Truck Railcar Barge, Vessel Pipeline Plane | | | | | |
| CBI | your facility. Truck | | | | | |

| 3.03 CBI | a. | Circle all applicable containers used to transport the listed substance to your facility. |
|---------------------------------------|------|--|
| [_] | | Bags 1 |
| | | Boxes |
| | | Free standing tank cylinders 3 |
| | | Tank rail cars 4 |
| • | | Hopper cars 5 |
| | | Tank trucks 6 |
| | | Hopper trucks 7 |
| | | Drums 8 |
| | | Pipeline 9 |
| | | Other (specify)10 |
| · · · · · · · · · · · · · · · · · · · | b. | If the listed substance is transported in pressurized tank cylinders, tank rail cars, or tank trucks, state the pressure of the tanks. |
| | | Tank cylinders |
| | | Tank rail cars Ma mmHg |
| | | Tank trucks mmHg |
| | | |
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| [<u>]</u>] M | lark | (X) this box if you attach a continuation sheet. |

| Trade Name | Supplier or Manufacturer | Average % Composition by Weight (specify ± % precision) | Amount Processed (kg/yr) |
|---------------------|-----------------------------|---|--------------------------------|
| ISTEPANFOAM G-303-T | STEPAN CEMPANY | ss°lo | 9.07 |
| | | | |
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[_] Mark (X) this box if you attach a continuation sheet.

| 3.05 CBI | State the quantity of the list reporting year in the form of the percent composition, by t | t a class i chemical, c. | lass II ch | rial during the emical, or polymer, and |
|-------------|--|--------------------------|------------|---|
| [_] | | Quantity Used (kg/yr) | | <pre>% Composition by Weight of Listed Sub- stance in Raw Material (specify ± % precision</pre> |
| | Class I chemical | | | A 6 |
| | | | | ه/م |
| | Class II chemical | | | |
| | Polymer | ۲۵.۹ | | <u>\$</u> \$% |
| | | | | |
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SECTION 4 PHYSICAL/CHEMICAL PROPERTIES

If you are reporting on a mixture as defined in the glossary, reply to questions in Section 4 that are inappropriate to mixtures by stating "NA -- mixture."

For questions 4.06-4.15, if you possess any hazard warning statement, label, MSDS, or other notice that addresses the information requested, you may submit a copy or reasonable facsimile in lieu of answering those questions which it addresses.

| PART | A PHYSICAL/CHEMICAL DA | TA SUMMARY | | |
|-------------|---|--|---|---|
| 4.01 CBI | Specify the percent pursubstance as it is man substance in the final import the substance, | ufactured, imported, or product form for manuf | r processed. Measure acturing activities, | the purity of the at the time |
| lJ | | Manufacture | Import | Process |
| | Technical grade #1 | % purity | Na % purity | _ N/A % purity |
| | Technical grade #2 | | N/A % purity | |
| | Technical grade #3 | N/A % purity | مارُم % purity | _ N/A % purity |
| | Cultural management | | | |
| 4.02 | Submit your most recen substance, and for ever an MSDS that you developersion. Indicate whe appropriate response. | ry formulation containi oped and an MSDS develo | ng the listed substan- ped by a different so | ce. II you possess urce, submit your |
| 4.02 | substance, and for everan MSDS that you developed version. Indicate whe | ry formulation containi oped and an MSDS develo ther at least one MSDS | ng the listed substand pped by a different so has been submitted by | ce. If you possess urce, submit your circling the |
| 4.02 | substance, and for ever an MSDS that you devel- version. Indicate whe appropriate response. | ry formulation containi oped and an MSDS develo ther at least one MSDS | ng the listed substandard by a different some has been submitted by | ce. If you possess urce, submit your circling the |
| 4.02 | substance, and for everan MSDS that you developerate whe appropriate response. Yes | ry formulation containi oped and an MSDS develo ther at least one MSDS | ng the listed substandard by a different some has been submitted by | ce. If you possess urce, submit your circling the |
| 4.02 | substance, and for ever an MSDS that you developed version. Indicate whe appropriate response. Yes | ry formulation containioped and an MSDS develon ther at least one MSDS | ng the listed substandard by a different some has been submitted by | ce. If you possess urce, submit your circling the |
| 4.02 | substance, and for ever an MSDS that you developed version. Indicate whe appropriate response. Yes | ry formulation containioped and an MSDS develon ther at least one MSDS | ng the listed substandard by a different some has been submitted by | ce. If you possess urce, submit your circling the |

| 4.03 | Submit a copy or reasonable facsimile of any hazard information (other than an MSDS) that is provided to your customers/users regarding the listed substance or any formulation containing the listed substance. Indicate whether this information has been submitted by circling the appropriate response. |
|------------|--|
| | Yes |
| | No (2 |
| 4.04 | For each activity that uses the listed substance, circle all the applicable number(s) corresponding to each physical state of the listed substance during the activity listed. Physical states for importing and processing activities are determined at the time you import or begin to process the listed substance. Physical states for |
| <u>CBI</u> | manufacturing, storage, disposal and transport activities are determined using the final state of the product. |

| | Physical State | | | | |
|-------------|----------------|--------|--------|------------------|-----|
| Activity | Solid | Slurry | Liquid | Liquified Gas | Gas |
| Manufacture | 1 | 2 | 3 | 4 | 5 |
| Import | 1 | 2 | 3 | 4 | 5 |
| Process | 1 | 2 | 3 | 4 | 5 |
| Store | 1 | 2 | 3 | 4 | 5 |
| Dispose | 1 | 2 | 3 | 4 | 5 |
| Transport | 1 | 2 | 3 | 4 | 5 |

| [_] | Mark | (X) | this | box | if | you | attach | а | continuation | sheet. | | |
|-----|------|-----|------|-----|----|-----|--------|---|--------------|--------|--|--|

Particle Size -- If the listed substance exists in particulate form during any of the following activities, indicate for each applicable physical state the size and the percentage distribution of the listed substance by activity. Do not include particles >10 microns in diameter. Measure the physical state and particle sizes for importing and processing activities at the time you import or begin to process the listed substance. Measure the physical state and particle sizes for manufacturing storage, disposal and transport activities using the final state of the product.

| Physical State | | Manufacture | Import | Process | Store | Dispose | Transport |
|-------------------|------------------|-------------|----------|-------------|-----------------|---------|-----------|
| * Dust | <1 micron | <u>Ala</u> | L)A | NA | N/A | NA | N/A |
| | 1 to <5 microns | | | | - }- | - | |
| | 5 to <10 microns | | | | | | |
| Powder | <1 micron | | | | | | |
| | 1 to <5 microns | | | | | | |
| | 5 to <10 microns | | | | | | |
| Fiber | <1 micron | | | | | | |
| | 1 to <5 microns | | | | | | |
| | 5 to <10 microns | | | | | | |
| Aerosol | <1 micron | | | | | | |
| | 1 to <5 microns | | | | | | |
| | 5 to <10 microns | <u> </u> | <u> </u> | _1 | -1 | 1 | |

| [_] | Mark (X) | this | box if you | attach | a | continuation | sheet. |
|-----|----------|------|------------|--------|---|--------------|--------|

| | | SECTION 5 ENVIRONMENTAL | FATE | | | |
|------|-----|---|----------|------------|-------|----------|
| PART | A F | RATE CONSTANTS AND TRANSFORMATION PRODUCTS | | | | |
| 5.01 | Ind | licate the rate constants for the following tra | nsformat | ion proces | sses. | |
| | a. | Photolysis: | | | | |
| | | Absorption spectrum coefficient (peak) | UNK | (1/M cm) | at | nm |
| | | Reaction quantum yield, 6 | UNK | | at | nm |
| | | Direct photolysis rate constant, k _p , at | UNK | 1/hr | | latitude |
| | ъ. | Oxidation constants at 25°C: | | | | |
| | | For ¹ 0 ₂ (singlet oxygen), k _{ox} | UNK | | | 1/M h |
| | | For RO ₂ (peroxy radical), k _{ox} | UNK | | | 1/M h |
| | c. | Five-day biochemical oxygen demand, BOD ₅ | UNK | | | mg/l |
| | d. | Biotransformation rate constant: | | | | |
| | | For bacterial transformation in water, k_b | UNK | | | 1/hr |
| | | Specify culture | UNK | | | |
| | e. | Hydrolysis rate constants: | | | | |
| | | For base-promoted process, k _B | UNK | | | 1/M h |
| | | For acid-promoted process, k, | | | | |
| | | For neutral process, k _N | | | | |
| | f. | Chemical reduction rate (specify conditions)_ | UNK | | | |

| [_] | Mark | (X) | this | рох | if | you | attach | а | continuation | sheet. | | |
|-----|------|-----|------|-----|----|-----|--------|---|--------------|--------|--|------|
| | | | | | | | | | | | | |

g. Other (such as spontaneous degradation) ... \sqrt{A}

| PART | в Р | ARTITION COEFFICIENTS | | | |
|------|------|---|-----------------|------------------------------|---------------------|
| 5.02 | a. | Specify the half-life of the | e listed substa | nce in the follow | ing media. |
| | | <u>Media</u> | | Half-life (speci | fy units) |
| | | Groundwater | UNK | | |
| | | Atmosphere | UNK | | |
| | | Surface water | UNK | | |
| | | Soil | UNK | | |
| | b. | Identify the listed substance life greater than 24 hours. | ce's known tran | sformation product | s that have a half- |
| | | CAS No. | Name | Half-life (specify units) | <u> Media</u> |
| | | 0nK | | | in |
| | | | | | |
| 5.03 | Spe | cify the octanol-water partit | ion coefficien | t, K _{ow} UNK | at 25°0 |
| | Met | hod of calculation or determi | nation | | |
| 5.04 | Spe | cify the soil-water partition | coefficient, l | Ka UNK | at 25°0 |
| | Soi | l type | | | |
| 5.05 | Spe | cify the organic carbon-water fficient, K _{oc} | partition | UNK | at 25°0 |
| 5.06 | Spe | cify the Henry's Law Constant | , н | UNK | atm-m³/mole |
| [_] | Marl | c (X) this box if you attach | a continuation | sheet. | |

| Bioconcentration Factor | | Species | | <u>Test¹</u> | |
|---|-----------|-------------|-------|-------------------------|--|
| UNIK | | UNIK | | | |
| | | | | | |
| | | | | | |
| ¹ Use the following codes to | designate | the type of | test: | | |
| <pre>F = Flowthrough S = Static</pre> | | | | | |
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| [_] | | Quantity Sold or | Total Sales |
|------|--|----------------------------|--|
| | <u>Market</u> | Transferred (kg/yr) | Value (\$/yr) |
| | Retail sales | | |
| | Distribution Wholesalers | | |
| | Distribution Retailers | | \ |
| | Intra-company transfer | | |
| | Repackagers | | |
| | Mixture producers | | |
| | Article producers | | |
| | Other chemical manufacturers or processors | | |
| | Exporters | | |
| | Other (specify) | | |
| | | | |
| | | | |
| 6.05 | Substitutes List all known commer for the listed substance and state the feasible substitute is one which is in your current operation, and which performance in its end uses. | ne cost of each substitute | ically feasible to use |
| | for the listed substance and state to feasible substitute is one which is in your current operation, and which | ne cost of each substitute | ically feasible to use |
| | for the listed substance and state to feasible substitute is one which is in your current operation, and which performance in its end uses. | ne cost of each substitute | ically feasible to use t with comparable |
| | for the listed substance and state to feasible substitute is one which is in your current operation, and which performance in its end uses. Substitute | ne cost of each substitute | ically feasible to use t with comparable |
| | for the listed substance and state to feasible substitute is one which is in your current operation, and which performance in its end uses. Substitute | ne cost of each substitute | ically feasible to use t with comparable |
| | for the listed substance and state to feasible substitute is one which is in your current operation, and which performance in its end uses. Substitute | ne cost of each substitute | ically feasible to use t with comparable |
| | for the listed substance and state to feasible substitute is one which is in your current operation, and which performance in its end uses. Substitute | ne cost of each substitute | ically feasible to use t with comparable Cost (\$/kg) |
| | for the listed substance and state to feasible substitute is one which is in your current operation, and which performance in its end uses. Substitute | ne cost of each substitute | ically feasible to use t with comparable Cost (\$/kg) |

SECTION 7 MANUFACTURING AND PROCESSING INFORMATION

General Instructions:

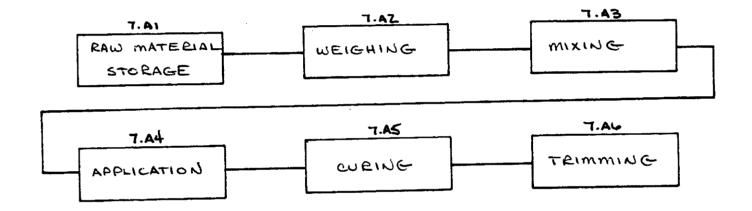
For questions 7.04-7.06, provide a separate response for each process block flow diagram provided in questions 7.01, 7.02, and 7.03. Identify the process type from which the information is extracted.

PART A WANUFACTURING AND PROCESSING PROCESS TYPE DESCRIPTION

7.01 In accordance with the instructions, provide a process block flow diagram showing th major (greatest volume) process type involving the listed substance.

CBI

[] Process type PLASTICS FABRICATION - FOAM INSTALLATION



FORM BATCH VOLUME 20 - 50 GRAMS

| [_] | Mark (X) | this | box i | f you | attach a | continuation | sheet. | |
|-----|----------|------|-------|-------|----------|--------------|--------|------|
| | | | | | | | | |

| 7.03 | In accordance with the instructions, provide a process block flow diagram showing all process emission streams and emission points that contain the listed substance and which, if combined, would total at least 90 percent of all facility emissions if not treated before emission into the environment. If all such emissions are released from one process type, provide a process block flow diagram using the instructions for question 7.01. If all such emissions are released from more than one process type, provide a process block flow diagram showing each process type as a separate block. |
|---------|--|
| [_] | Process type PLASTICS FABRICATION |
| | · A |
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| <u></u> | Mark (X) this box if you attach a continuation sheet. |

| [_] | Process type | PLASTICS FA | BRICATICA | | |
|-----|---------------------------|------------------------------|---|----------------------------------|-----------------------|
| | Unit Operation *ID Number | Typical Equipment Type | Operating Temperature Range (°C) | Operating Pressure Range (mm Hg) | Vessel Composition |
| | _7.AS | QURING OVEN | 65-125 | <u> </u> | <u> </u> |
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| | question and compl | diagram is provided for meter it separately for each | process type. | |
|-----|--|--|--------------------------------------|------------------------|
| CBI | | | | |
| | Process type | PLASTICS FABRICATIO | οN | |
| | Process Stream ID Code | Process Stream Description | Physical State ¹ | Stream Flow (kg/yr) |
| | | | | |
| | | | | |
| | GC = Gas (condens GU = Gas (uncondens SO = Solid SY = Sludge or si AL = Aqueous liqu OL = Organic liqu | ıid | e and pressure) ure and pressure) | |
| | | | | • |
| | | | | |

| 7.06 | If a process | e each process stream is block flow diagram is on and complete it sepa | provided for more | rocess type. | | | | |
|------|------------------------------|--|--|--------------------------------|-------------------------------------|--|--|--|
| CBI | instructions | for further explanati | on and an example | :.) | | | | |
| [_] | Process type | Process type PLASTICS FABRICATION | | | | | | |
| | a. | b. | c. | d. | e. | | | |
| - | Process Stream ID Code | Known Compounds ¹ | Concen- trations ^{2,3} (% or ppm) | Other Expected Compounds | Estimated Concentrations (% or ppm) | | | |
| | n/n | NA | N/A | N/A | N/A | | | |
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| 7.06 | continued b | elow | | | | | | |
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| 7 | .06 | (con | tinu | ed) |
|---|-----|------|------|-----|
| • | | , ~~ | | , |

¹For each additive package introduced into a process stream, specify the compounds that are present in each additive package, and the concentration of each component. Assign an additive package number to each additive package and list this number in column b. (Refer to the instructions for further explanation and an example. Refer to the glossary for the definition of additive package.)

| Additive Package Number | Components of Additive Package | Concentrations (% or ppm) | | |
|---|---------------------------------|---------------------------|--|--|
| 1 | N/V | N/A | | |
| | | | | |
| 2 | | | | |
| | • | | | |
| 3 | | | | |
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| 4 | | | | |
| 4 | | | | |
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| 5 | | | | |
| | | | | |
| ² Use the following codes to | designate how the concentrati | on was determined: | | |
| A = Analytical result E = Engineering judgement/ | calculation/ | | | |
| ³ Use the following codes, to | o designate how the concentrati | on was measured: | | |
| V = Volume W = Weight | | | | |
| Mark (X) this box if you att | tach a continuation sheet. | | | |
| | | | | |

| 8.01 In accordance with the instructions, provide a residual treatment block flow d which describes the treatment process used for residuals identified in questio CBI [] Process type PLASTICS FABRICATION * N A | iagram |
|--|----------|
| Process type PLASTICS FABRICATION | 11 7.01. |
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[_] Mark (X) this box if you attach a continuation sheet.

| 8.05 | diagram | (s). If a r | esidual trea | tment block fl estion and com | n your residua ow diagram is plete it sepan | cately for ea | ch process |
|------|---------------------------------------|-------------------|--|----------------------------------|---|--------------------------------|---------------------------------------|
| CBI | · · · · · · · · · · · · · · · · · · · | | | | | | • |
| [_] | Process | type | PLASTICS | FABRICATION | | | |
| | a. | b. | c. | d. | e. | f. | g. |
| | Stream ID Code | Type of Hazardous | Physical State of Residual ² | Known Compounds ³ | Concentra- tions (% or ppm) 4,5,6 | Other Expected Compounds | Estimated Concen- trations (% or ppm) |
| | | ~/A | | | | , | |
| | | | | | | | |
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| 8.05 | continu | ed below | | | | | |

8.05 (continued) ¹Use the following codes to designate the type of hazardous waste: I = Ignitable C = Corrosive R = Reactive E = EP toxicT = ToxicH = Acutely hazardous ²Use the following codes to designate the physical state of the residual: GC = Gas (condensible at ambient temperature and pressure) GU = Gas (uncondensible at ambient temperature and pressure) SO = SolidSY = Sludge or slurry AL = Aqueous liquid OL = Organic liquid IL = Immiscible liquid (specify phases, e.g., 90% water, 10% toluene) 8.05 continued below

| | | _ | | ٠. |
|----|----|------|-------|----|
| Я. | ი5 | (con | tinue | d) |

8.05

³For each additive package introduced into a process stream, specify the compounds that are present in each additive package, and the concentration of each component. Assign an additive package number to each additive package and list this number in column d. (Refer to the instructions for further explanation and an example. Refer to the glossary for the definition of additive package.)

| Additive Package Number | Components of Additive Package | | Concentrations (% or ppm) |
|---|-----------------------------------|--------------|---------------------------|
| 1 | NA | | ы\ <u>Д</u> |
| | , | - | |
| | | _ | |
| 2 | | - | |
| | | _ | |
| 3 | | - | |
| | | · - | |
| | | - | |
| 4 | | - | |
| | | _ | |
| 5 | | - | |
| | | · <u>-</u> | |
| | | _ | |
| ⁴ Use the following codes to o | designate how the conce | ntration was | determined: |
| <pre>A = Analytical result E = Engineering judgement/ca</pre> | | | ě |
| continued below | | | |
| Mark (X) this box if you atta | ach a continuation shee | t. | |

| 8.05 | (continued) | |
|------|-------------|--|
| 0.05 | (CONTINUED) | |

⁵Use the following codes to designate how the concentration was measured:

V = Volume

W = Weight

⁶Specify the analytical test methods used and their detection limits in the table below. Assign a code to each test method used and list those codes in column e.

| Code | <u>Method</u> | Detection Limit(± ug/l) |
|------|---------------|-------------------------|
| 1_ | N/A | |
| | | |
| _3 | | |
| 4 | | |
| _5 | | |
| 6 | | |

| CBI | | | | | | | | |
|-----|----------------------|--------------------------------|---|-----------------------------------|-----------|--------------------------------|------------------------------------|---------------------------------------|
| | Process | type | PLASTICS | FABRICATIO | 7 | | | |
| | a. | b. | c. | d. | е | • | f. Costs for | g. |
| | Stream ID Code | Waste Description Code | Management Method Code ² | Residual Quantities (kg/yr) | of Resi | gement dual (%) Off-Site | Off-Site Management (per kg) | Changes in Management Methods |
| | | _ N/A | | | • | | | |
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| | ¹Use th | ne codes prov ne codes prov | ided in Exh | ibit 8-1 to | designate | the waste | description | s s |

| _] | · | Combu | mber | Locat Tempe | ion of rature | Reside | ence Time mbustion (seconds) |
|----|--|---------------------------------------|--------------|---------------------|-----------------------------|-----------------------|--|
| Ĩ | Incinerator | Primary | Secondary | Primary | Secondary | Primary | Secondary |
| - | 1 | | | | | | |
| _ | 3 | | | | | | |
| _ | by circl | ing the appr | | | | tted in lieu | 1 |
| | No | • • • • • • • • • • | | | | | |
| | Complete the fare used on-sitreatment bloc | te to ourn | ram(s). | ollution | t (by capaci in your pro | Type Emissic | tors that or residual es of ons Data lable |
| : | Incinerator 1 | | | Device ¹ | | u/A | |
| | 2 | | | | | | |
| | by circl | ling the app | ropriate tes | ponse. | | itted in lie | |
| | Yes ···· | | | | | • • • • • • • • • • • | |
| | | | | | | | |
| | No | · · · · · · · · · · · · · · · · · · · | | | | | |
| | No | owing codes | to designate | the air po | llution cont | | |

9.01 Mark (X) the appropriate column to indicate whether your company maintains records the following data elements for hourly and salaried workers. Specify for each data element the year in which you began maintaining records and the number of years the records for that data element are maintained. (Refer to the instructions for furth explanation and an example.)

| <u>D</u> . | ata are Ma: Hourly | intained for Salaried | Data Collection | Number of Years Record |
|---|-----------------------|--------------------------|-----------------|---------------------------|
| Dæta Element | Workers | Workers | Began | Are Maintair |
| Date of hire | X | X | 1950 | INTELIALLETA |
| Age at hire | | | 1950 | INPERINITERA |
| Work history of individual before employment at your facility | × | × | 1950 | INDEFILITELY |
| Sex | <u>×</u> | × | 1950 | INDEMNITELY |
| Race | | X | 1950 | INDEFINITELY |
| Job titles | | X | 1950 | INDEFINITELY |
| · Start date for each job title | | X | 1950 | INDEFINITELY |
| End date for each job title | <u> </u> | <u> </u> | 1950 | INPEHINITERY |
| Work area industrial hygiene monitoring data | N/A | 4/4 | N/A | H/A |
| Personal employee monitoring data | MA | N/A | 4/4 | N/A |
| Employee medical history | | X | 1950 | NA |
| Employee smoking history | N/A | A/A | NA | |
| Accident history | | × | 1950 | INPERINITER |
| Retirement date | <u> </u> | X | 1950 | INPERINITER |
| Termination date | <u> </u> | <u> </u> | N/A , | NA |
| Vital status of retirees | N/A | <u>~/~</u> | | N/A |
| Cause of death data | NA | . N/A | | |

[[]__] Mark (X) this box if you attach a continuation sheet.

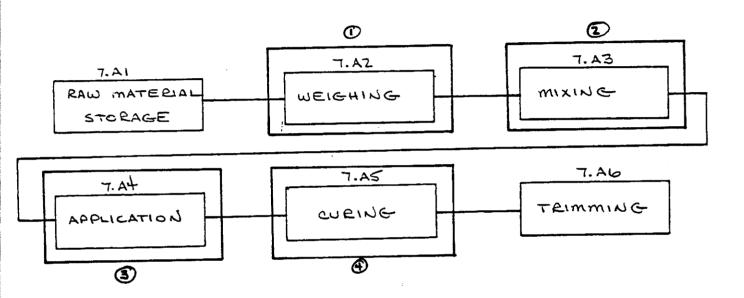
| • | b. | c. | d. | e. |
|-------------------------------------|--------------------|---------------|-------|-------------|
| a. | • | Yearly | Total | Total |
| Activity | Process Category | Quantity (kg) | | Worker-Hour |
| Manufacture of the listed substance | Enclosed | <u> </u> | NA | |
| listed substance | Controlled Release | | | |
| | 0pen | | | |
| On-site use as | Enclosed | | | |
| reactant | Controlled Release | | | |
| | 0pen | | | |
| On-site use as | Enclosed | | | |
| nonreactant | Controlled Release | | | |
| | 0pen | | | |
| On-site preparation | Enclosed | | | |
| of products | Controlled Release | | | |
| | 0pen | 9.07 | | 30 |
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| encompasses worker listed substance. | ive job title for each labor category at your facility that s who may potentially come in contact with or be exposed to the |
|---|---|
| <u>I</u> | |
| _1 | |
| Labor Category | Descriptive Job Title |
| A | PLASTICS FABRICATOR |
| * B | GRWP LEADER |
| С | SUPERVISOR |
| D | |
| E | |
| F | |
| G | |
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9.04 In accordance with the instructions, provide your process block flow diagram(s) and indicate associated work areas.

CBI

Process type PLASTICS FABRICATION



FORM BATCH VOLUME 20-50 GRAMS

| 9.05 | may potentially con additional areas no | us work area(s) shown in question 9.04 that encompass workers wh me in contact with or be exposed to the listed substance. Add a ot shown in the process block flow diagram in question 7.01 or his question and complete it separately for each process type. |
|------------|--|---|
| <u>CBI</u> | | |
| [_] | Process type | PLASTICS FABRICATION |
| | Work Area ID | Description of Work Areas and Worker Activities |
| | 1 | SET UP AREA - WOEKER ACQUIRES CORPECT AMOUNT OF FOAMS |
| | 2 | SET UP AREA - WOCKER PREPARES FOAM MIXTURE |
| | 3 | SET UP AREA- WORKER APPLIES FOAM TO MOLD OR ARTICL |
| | 4 | SET UP AREA - FORM CURES IN OVEN OR UNDER HEAT LAMP |
| | 5 | |
| | 6 | |
| | 7 | |
| | 8 | |
| | 9 | |
| | 10 | |
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| Process typ | e <u>p. As</u> | STICS FABRICATION | | | |
|---|---|---|---|--|---|
| Work area . | | • | 1-4 | | |
| *Labor Category | Number of Workers Exposed | Mode of Exposure (e.g., direct skin contact) | Physical State of Listed Substance ¹ | Average Length of Exposure Per Day ² | Number o Days per Year Exposed |
| A, B | <u> </u> | DIRECT SKIN CONTAC | <u> </u> | <u> </u> | |
| | 1 | BIRECT SKIN CONTAC | <u> </u> | | |
| | | | | | |
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| the point GC = Gas temp GU = Gas temp incl SO = Soli | of exposure: (condensible a erature and pr (uncondensible erature and pr udes fumes, va d | essure) A at ambient C essure; I | SY = Sludge or s L = Aqueous liq L = Organic liq L = Immiscible (specify ph 90% water, | lurry uid uid liquid ases, e.g., 10% toluene) | |
| B = Greate | utes or less r than 15 minu | tes, but not | = Greater than exceeding 4 | hours | |
| | ing 1 hour r than one hou | | <pre>= Greater than exceeding 8</pre> | | not . |

| Process ty | pe | PLASTICS FABRICATION | | | | | | |
|------------|---------------|---|---|--|--|--|--|--|
| | Work area | | | | | | | |
| Labor Cate | • | 8-hour TWA Exposure Level (ppm, mg/m³, other-specify) | 15-Minute Peak Exposure Le (ppm, mg/m³, other-specif | | | | | |
| A, B, C | | UNK | UNK | | | | | |
| | | | <u> </u> | | | | | |
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| 80 | If you monitor worke | r exposur | e to the lis | sted substai | nce, compl | ete the fo | llowing table. |
|----|---|-----------------------|------------------------------------|------------------------------------|------------|-------------------------------|--|
| I | | | | | | | |
| _] | Sample/Test | Work Area ID | Testing Frequency (per year) | Number of Samples (per test) | Who | Analyzed In-House (Y/N) | Number of Years Records Maintained |
| | Personal breathing zone | | NA | | | | |
| | General work area (air) | | N/A | | | <u></u> | |
| | Wipe samples | | NA_ | | | *** | |
| | Adhesive patches | | N/A | | | | |
| | Blood samples | | N/A | | | | |
| • | Urine samples | | _ N/N | | | | |
| | Respiratory samples | | N/A | | | | |
| | Allergy tests | | NA | | | | |
| | Other (specify) | | · | | | | |
| | Other (specify) | | | | | | |
| | Other (specify) | | | | | | |
| | | | | | | | |
| | ¹ Use the following of A = Plant industria B = Insurance carri C = OSHA consultant D = Other (specify) | al hygieni er : | ist | o takes the | monitori | ng samples: | |

| CBI | analytical methodology used for each type of sample. Sample Type Sample Type Sample Type | | | | | | |
|------|--|--|--|--|--|--|--|
| [_] | Sample Type Sampling and Analytical Methodology | | | | | | |
| | <u> </u> | | | | | | |
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| 9.10 | If you conduct personal and/or ambient air monitoring for the listed substance, | | | | | | |
| 7.10 | specify the following information for each equipment type used. | | | | | | |
| CBI | Averaging | | | | | | |
| [-] | Equipment Type Detection Limit Manufacturer Time (hr) Model Number | | | | | | |
| ·—- | N/A | | | | | | |
| | N/A | | | | | | |
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| | Use the following codes to designate personal air monitoring equipment types: | | | | | | |
| | A = Passive dosimeter | | | | | | |
| | <pre>B = Detector tube C = Charcoal filtration tube with pump</pre> | | | | | | |
| | D = Other (specify) | | | | | | |
| | Use the following codes to designate ambient air monitoring equipment types: | | | | | | |
| | E = Stationary monitors located within work area | | | | | | |
| | <pre>F = Stationary monitors located within facility G = Stationary monitors located at plant boundary</pre> | | | | | | |
| | <pre>H = Mobile monitoring equipment (specify) I = Other (specify)</pre> | | | | | | |
| | ² Use the following codes to designate detection limit units: | | | | | | |
| | A = ppm | | | | | | |
| • | B = Fibers/cubic centimeter (f/cc) | | | | | | |
| | $C = Micrograms/cubic meter (\mu/m3)$ | | | | | | |
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| [_] | Mark (X) this box if you attach a continuation sheet. | | | | | | |

| <u> </u> | | | Consideration and | Frequency |
|----------|---------------------------------------|-------|-------------------|-----------------------|
| _] | Test Descrip | otion | (weekly, mo | onthly, yearly, etc.) |
| | A/A | | | <u> </u> |
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| | C ENGINEERING CONTROLS | trole that you | use to reduce of | eliminate wor | ker exposure | | |
|--------------------|--|----------------|-------------------|-------------------|------------------|--|--|
| 9.12 <u>CBI</u> | Describe the engineering controls that you use to reduce or eliminate worker exposure to the listed substance. Photocopy this question and complete it separately for each process type and work area. | | | | | | |
| 1-1 | Process type | PLASTICS " | FABRICATION | | | | |
| ` <u> </u> | Work area | | | 1-4 | | | |
| | Engineering Controls | Used (Y/N) | Year Installed | Upgraded (Y/N) | Year Upgraded | | |
| | Ventilation: | | • | | | | |
| | Local exhaust | <u> </u> | 1962 | N | | | |
| | General dilution | Y | UNK | <u>N</u> | | | |
| | Other (specify) | | | | | | |
| | Vessel emission controls | _ N | | | | | |
| | Mechanical loading or packaging equipment | | | | | | |
| | Other (specify) | | | | | | |
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| 13 | prior to the repo | pment or process modifications you have ma rting year that have resulted in a reducti nce. For each equipment or process modifi duction in exposure that resulted. Photoc ately for each process type and work area. | cation described, state opy this question and |
|------------|--------------------|--|---|
| I | | | |
| <u>_</u>] | Process type | PLASTICS FABRICATION | |
| | Work area | | 1-4 |
| | £ Equipm | ent or Process Modification | Reduction in Worker Exposure Per Year (%) |
| | NA | · | |
| | — NJA | | |
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| 9.14 | in each work area | nal protective and safety equi in order to reduce or eliminate opy this question and complete | e their exposu | re to the listed |
|------|-------------------|---|---|------------------|
| CBI | and work area. | | | |
| [_] | Process type | PLASTICS FABRICATION | • | |
| | Work area | | • | . 1-4 |
| | | • | | |
| | | | Wear or Use | |
| | | Equipment Types | (Y/N) | |
| | | Respirators | <u> </u> | |
| | | Safety goggles/glasses | · Y | |
| | | Face shields | <u> </u> | |
| | | Coveralls | <u> </u> | |
| | | Bib aprons | 4 | |
| | | Chemical-resistant gloves | <u> </u> | |
| | | Other (specify) | | |
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| Process | type | PLASTICS FA | BRICATION | | | Exercise of |
|--|--|--------------|-------------------------------|------------------------|--|---|
| * Work Area | Respira Type | | Average Usage ¹ | Fit Tested (Y/N) | Type of Fit Test ² | Frequency of Fit Tests (per year) |
| | HALF-MASK CARTRIDE | E RESPIRATOR | <u> </u> | _ 1 | <u>~ </u> | N/A |
| | | | | | | |
| $E = 0 \text{ th}$ $^{2} \text{Use the}$ $QL = Qt$ | e a year er (specify) following codes alitative antitative | to designat | e the type | of fit tes | t: | |
| | | | | | | |

| PART | E WORK PRACTICES | | | | | | | |
|-------------|---|---|-------------|----------------------|---------------------------|--|--|--|
| 9.19 CBI | Describe all of the work practices and administrative controls used to reduce or eliminate worker exposure to the listed substance (e.g., restrict entrance only to authorized workers, mark areas with warning signs, insure worker detection and monitoring practices, provide worker training programs, etc.). Photocopy this question and complete it separately for each process type and work area. | | | | | | | |
| [_] | Process type PLASTICS FABRICATION | | | | | | | |
| | Work area 1-t | | | | | | | |
| | PLASTICS AREA IS RESTRICTED TO AUTHORIZED WORKER(S) | | | | | | | |
| | | | | | | | | |
| | | WERER TRAINED AS TO PROCESS HAZARDS WHEN LEARNING PROCESS | | | | | | |
| | | | | | | | | |
| | CEMPANY - WIDE CHEMICA | L INFORMATION | PROGRAM ? | EIR TRAINI | | | | |
| | Process type Phase Work area | | | 3-4 Times Per Day | More Than 4 Times Per Day | | | |
| | Housekeeping Tasks | once rer bay | <u> </u> | | | | | |
| | Sweeping | | | | | | | |
| | Vacuuming | | | | | | | |
| | Water flushing of floors | | | | | | | |
| | Other (specify) | | | | | | | |
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| [_] | Mark (X) this box if you a | ittach a continua | tion sheet. | | | | | |

| 9.21 | Do you have a written medical action plan for responding to routine or emergency exposure to the listed substance? |
|------|---|
| | Routine exposure |
| | Yes |
| | No (2 |
| | Emergency exposure |
| | Yes 1 |
| | No 2 |
| | If yes, where are copies of the plan maintained? |
| | Routine exposure: |
| | Emergency exposure: |
| 9.22 | Do you have a written leak and spill cleanup plan that addresses the listed substance? Circle the appropriate response. |
| | Yes |
| | No 2 |
| | If yes, where are copies of the plan maintained? <u>Burnous its</u> |
| | Has this plan been coordinated with state or local government response organizations? Circle the appropriate response. |
| | Yes |
| | No |
| 9.23 | Who is responsible for monitoring worker safety at your facility? Circle the appropriate response. |
| | Plant safety specialist |
| | Insurance carrier |
| | OSHA consultant |
| | Other (specify) |
| [_] | Mark (X) this box if you attach a continuation sheet. |

SECTION 10 ENVIRONMENTAL RELEASE

General Instructions:

Complete Part E (questions 10.23-10.35) for each non-routine release involving the listed substance that occurred during the reporting year. Report on all releases that are equal to or greater than the listed substance's reportable quantity value, RQ, unless the release is federally permitted as defined in 42 U.S.C. 9601, or is specifically excluded under the definition of release as defined in 40 CFR 302.3(22). Reportable quantities are codified in 40 CFR Part 302. If the listed substance is not a hazardous substance under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and, thus, does not have an RQ, then report releases that exceed 2,270 kg. If such a substance however, is designated as a CERCLA hazardous substance, then report those releases that are equal to or greater than the RQ. The facility may have answered these questions or similar questions under the Agency's Accidental Release Information Program and may already have this information readily available. Assign a number to each release and use this number throughout this part to identify the release. Releases over more than a 24-hour period are not single releases, i.e., the release of a chemical substance equal to or greater than an RQ must be reported as a separate release for each 24-hour period the release exceeds the RQ.

For questions 10.25-10.35, answer the questions for each release identified in question 10.23. Photocopy these questions and complete them separately for each release.

| PART A | GENERAL INFORMATION |
|---------|---|
| 10.01 | Where is your facility located? Circle all appropriate responses. |
| CBI | |
| [_] | Industrial area $\widehat{\mathbb{1}}$ |
| | Urban area 2 |
| | Residential area |
| | Agricultural area 4 |
| | Rural area 5 |
| | Adjacent to a park or a recreational area 6 |
| | Within 1 mile of a navigable waterway 7 |
| | Within 1 mile of a school, university, hospital, or nursing home facility |
| | Within 1 mile of a non-navigable waterway |
| | Other (specify)10 |
| [_] | Mark (X) this box if you attach a continuation sheet. |

| 10.02 | Specify the exact location of you is located) in terms of latitude (UTM) coordinates. | r facility (from cent and longitude or Univ | ral point ersal Tra | t where pr ansverse l | rocess unit Mercader |
|--------------|---|--|------------------------|--------------------------|---------------------------|
| | Latitude | | 040 | 0 16 | ′ 00 ' |
| | Longitude | | 075 | • 14 | 1 45 " |
| | UTM coordinates Zone | Northi | ng | , East: | ing |
| 10.03 | the following information. | | \ | | |
| | Average annual precipitation | | | | _ inches/year |
| | Predominant wind direction | | | | - |
| 10.04 | Indicate the depth to groundwater Depth to groundwater | 1 | | | _ meters |
| 10.05 CBI | For each on-site activity listed, listed substance to the environme Y, N, and NA.) | indicate (Y/N/NA) alnt. (Refer to the in | l routing | e releases | s of the definition of |
| [_] | On-Site Activity | Envi Air | ronmenta. Wat | l Release er | Land |
| | Manufacturing | | | | NA |
| | Importing | w/a | 2/14 | 1 | NA |
| | Processing | | <i>~</i> / <i>µ</i> / | <u> </u> | NA |
| | Otherwise used | N/A | | A . | ИА |
| | otherwise asea | | | A | 1 |
| | Product or residual storage | N/A | | | NIA |
| | Product or residual storage | <u>~/A</u> | **** | <u> </u> | <u>N A</u> ∪.N.K |
| | Disposal | N/A | - N/ | <u></u> | UNK |
| | | | **** | <u></u> | |
| | Disposal | N/A | - N/ | <u></u> | ひひと |
| | Disposal | N/A | - N/ | <u></u> | UNK |

| 10.08 | for each process stream | chnologies used to minimize release containing the listed substance as al treatment block flow diagram(s). | THE THE THE THE VOLL | | | | |
|-------|-----------------------------------|--|----------------------|--|--|--|--|
| CBI | | ely for each process type. | | | | | |
| [_] | Process type PLASTICS FABRICATION | | | | | | |
| | Stream ID Code | Control Technology | Percent Efficiency | | | | |
| | | ۱۵/۱۸ | • | | | | |
| | * | N/R | | | | | |
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| PART B | RELEASE TO | AIR | |
|---------------------|---------------------------|--|---|
| 10.09 CBI [_] | substance in residual tre | n terms of a Streament block flow not include raw man, equipment leak | entify each emission point source containing the listed am ID Code as identified in your process block or with diagram(s), and provide a description of each point material and product storage vents, or fugitive emission cs). Photocopy this question and complete it separately |
| | Process type | PLASTICS | S FABRICATION |
| | Point Source ID Code | | Description of Emission Point Source |
| | | | LCCAL EXHAUST |
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| | Mark (X) this | s dox ii you atta | ch a continuation sheet. |

Mark

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 $^{^4}$ Average Emission Factor — Provide estimated (\pm 25 percent) emission factor (kg of emission per kg of production of listed substance)

| 5 .4S AMBIENT UNK 4.26 45.75 | Point Source ID Code | Stack Height(m) | Stack Inner Diameter (at outlet) (m) | Exhaust Temperature (°C) | Emission Exit Velocity (m/sec) | Building <u>Height(m)</u> ¹ | Building Width(m) | Ve Ty |
|--|-------------------------------|--------------------|--------------------------------------|--------------------------------|--------------------------------|---|----------------------|----------|
| | • | | | AMBIENT | UNK | 4.25 | 45.75 | |
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| | ² Width o | f attached (| or adjacent l | building | | | | |
| ² Width of attached or adjacent building | ³ Use the | following | codes to des: | ignate vent | type: | | | |
| ² Width of attached or adjacent building ³ Use the following codes to designate vent type: | | | | | | | | |
| | | | | | | | | ÷ |

| BI | distribution for each Point Source ID | particulate form, indicate the particle size Code identified in question 10.09. it separately for each emission point source. |
|-----|---------------------------------------|---|
| [_] | Point source ID code | A/4 |
| | Size Range (microns) | Mass Fraction (% \pm % precision) |
| | * < 1 | A/A |
| | > 1 to < 10 | |
| | ≥ 10 to < 30 | |
| | _ | |
| | ≥ 30 to < 50 | |
| | ≥ 50 to < 100 | |
| | ≥ 100 to < 500 | |
| | ≥ 500 | m . 1 100% |
| | | Total = 100% |
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| | | a a |
| | • | |
| , | | |
| | | |

| CBI | Equipment Leaks Complete types listed which are exposed to the specified the component. Do this for residual treatment block fl not exposed to the listed sprocess, give an overall pe exposed to the listed substfor each process type. | sed to the l weight perce each proces ow diagram(s ubstance. I | isted sub nt of the s type io). Do no f this is time per | e listed sidentified of include s a batch | nd which a substance in your p e equipmen or intern t the proof | passing process but types in tently cess type | through lock or that are operated is |
|-----|--|--|--|---|--|---|--|
| [_] | Process type PLASTIC | S FABRICAT | Lor | | | | |
| _ | Percentage of time per year type | that the li | sted subs | stance is | exposed | to this p | rocess |
| | type | Number | of Compor | nents in S | Service by | y Weight | Percent am |
| | Equipment Type | Less than 5% | 5-10% | 11-25% | 26-75% | <u>76-99%</u> | Greater than 99% |
| | Pump seals ¹ | | | | | | |
| | Packed | 2/A | NA | N/A | NA | NA | N/A |
| | Mechanical | į | | * | | | |
| | Double mechanical ² | | | • | | | |
| | Compressor seals ¹ | | | | | | |
| | Flanges | | | | | | |
| | Valves | | | | | | |
| | Gas ³ | | | | | | |
| | Liquid | | | | | | |
| | Pressure relief devices ⁴ (Gas or vapor only) | - | | | | | |
| | Sample connections | | | | | | |
| | Gas | | | | | | |
| | Liquid | | | | | | |
| | Open-ended lines ⁵ (e.g., purge, vent) | | | | | | |
| | Gas | | | | | | |
| | Liquid | V/ | V | U) | V | ¥ | V |

10.13 continued on next page

| [_] | Mark (X) | this box | if you | attach a | continuation | sheet. | |
|-----|----------|----------|--------|----------|--------------|--------|--|
| | | | | | | | |

| 10.13 | (continued) | | | |
|--------------|---|--|-------------------------------|---------------------|
| | ² If double mechanical sea greater than the pump st will detect failure of t with a "B" and/or an "S' | the seal system, the b | | |
| | ³ Conditions existing in t | the valve during norma | l operation | |
| | ⁴ Report all pressure reli *control devices | ief devices in service | e, including those ϵ | equipped with |
| | ⁵ Lines closed during norm operations | mal operation that wou | ild be used during r | maintenance |
| 10.14 CBI | Pressure Relief Devices of pressure relief devices devices in service are content of the column and the column of | identified in 10.13 to controlled. If a press | | |
| [_] | a. | b. | c. | d. Estimated |
| | Number of Pressure Relief Devices | Percent Chemical in Vessel | Control Device | Control Efficiency |
| | NA | A 4 | <u> </u> | <u> </u> |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | · . | • | |
| | Refer to the table in que heading entitled "Number Substance" (e.g., <5%, 5°2 The EPA assigns a control of the control of the table in que heading entitle table entitle table in que heading entitle table entitle entitle table entitle table entitle entitle table entitle | r of Components in Ser 5-10%, 11-25%, etc.) | ercent for equipmen | it leaks controlled |
| | with rupture discs under efficiency of 98 percent conditions | r normal operating con t for emissions routed | to a flare under r | normal operating |
| [_] | Mark (X) this box if you | attach a continuation | sheet. | |
| | | | | |

| Process type | | | PLASTICS | FABRICATION | 3 |
|---|--|---------------------|---|---|---|
| \$ Equipment Type | Leak Detection Concentration (ppm or mg/m³) Measured at Inches from Source | Detection Device | Frequency of Leak Detection (per year) | Repairs Initiated (days after detection) | Repair Complet (days af initiate |
| Pump seals | | 1 | 1 | 1 | 1 |
| Packed | NA | NA | ALM | N/A | NA |
| Mechanical | | | | | |
| Double mechanical | | | | | |
| Compressor seals | | | | | |
| Flanges | | | | | |
| Valves | | | | | |
| Gas | | | | | |
| Liquid | | | | | |
| Pressure relief devices (gas or vapor only) | | | | | |
| Sample connections | | 1 | | | |
| Gas | | | | | |
| Liquid | | | | | |
| Open-ended lines | | | | | |
| Gas | | | | | /_ _ |
| Liquid | <u> </u> | <u> </u> | <u> </u> | | |
| ¹ Use the following | | | evice: | | |

| | 10.16 | liquid raw material, intermediate, and product storage vessel containing the listed substance as identified in your process block or residual treatment block flow diagram(s). | | | | | | | | | | n each ess block | | | |
|---------------------------------|-------|--|---|--|--|------------------------------|--------------------------------|--|--|--|--|---|-------------------------------------|-----------------------|-------|
| Mark (X) this box if you attach | | Vessel Type N/A | idual trea | Composition of Stored Materials | flow diagram | vessel | Vessel Filling | Vessel Inner | Vessel | Operat- ing Vessel Volume | | Design Flow | ₩ Vent | Control Efficiency | Basis |
| a continuation sheet. | | F CIF NCIF EFR P H U | = Fixed r = Contact = Noncont = Externs = Pressur = Horizor = Undergradicate weight | t internal flact internal al floating revessel (intal round the percent of the coating roofs we rate the enting codes to | loating roof I floating roof roof Indicate press f the listed mission cont | oof sure rati substanc | ng) ce. Inclu ce was des | MS MS LM LM VM VM VM de the tot | 1 = Med 2 = Sho 2R = Rid 1 = Lid 2 = Rid W = Wed 1 = Va 12 = Rid W = Wed 13 = Wed | chanica oe-mount quid-mount ather s por mount ather s tile or (specify | l shoe, proted second sed, second shield mted resiluted second shield reganic control of the second shield shield reganic control of the second shield reganic control of the second shield shield reganic control of the second shield reganic control of the second shield shield shield reganic control of the second shield reganic control of the second shield shield reganic control of the second shi | imary lary lient f : lient fi ary tent in | illed sea lled seal parenthes | | ls: |

| שמאמ | 77 | NON-ROUTINE | DELEVEES |
|------|----|-------------|----------|
| PART | ŀ. | NON-KOUTINE | KELEASES |

10.23 Indicate the date and time when the release occurred and when the release ceased or was stopped. If there were more than six releases, attach a continuation sheet and list all releases.

| Release | Date Started | Time (am/pm) | Date Stopped | Time (am/pm) |
|---------|-----------------|-----------------|-----------------|--------------|
| 1 | A/A | · Ala | A La | NA |
| 23 | | | | |
| 4 | | | | |
| | | | | |
| 6 | | | | |

10.24 Specify the weather conditions at the time of each release.

| Release | Wind Speed (km/hr) | Wind Direction ム 人A | Humidity (%) む/ム | Temperature (°C) $\lambda /$ | Precipitation (Y/N) |
|---------|--------------------|---------------------------|------------------------|------------------------------|---------------------|
| 2 | | | | | |
| 3 | | | | | - |
| 4 | | | | | |
| 5 | | | | | |
| 6 . | | | | | |

PAGE: JTF: 03/31/88 PRODUCT NAME: STEPANFOAM G-302-T (MOD.) PRODUCT NUMBER: 711150 ፞፞፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟፟ EMERGENCY INFORMATION STEPAN COMPANY MEDICAL: 1-800-228-5435 NORTHFIELD, IL. 60093 1-800-424-9300 CHEMTREC: (312) 446-7500 SECTION I: GENERAL INFORMATION PRODUCT NAME: STEPANFOAM G-302-T (MOD.) PRODUCT NUMBER: 711150 PRODUCT CLASS: TOLUENE DIISOCYANATE. PRECAUTIONS: POISON. REFER TO BILL OF LADING OR CONTAINER LABEL FOR DOT OR OTHER TRANSPORTATION HAZARD CLASSIFICATION, IF ANY. SECTION II: HAZARDOUS INGREDIENTS ********************************* DSHA PEL ACGIH TLV OTHER INGREDIENT (CAS #) (PPM) TOLUENE-2, 4-DIISOCYANATE (TDI) (C) 0.005 0.02 (584-84-9)

NE = NOT ESTABLISHED.

55%

NL = NOT LISTED.

(C) = IDENTIFIED AS A CARCINOGEN BY OSHA, IARC, OR NTP.

BOILING POINT:

(CONTINUED)

TE: 03/31/68 PAGE: PRODUCT NAME: STEPANFOAM G-302-T (MOD.)

OVER 200 DEG F. (93 DEG C.).

% VOLATILE BY WEIGHT:

NIL

*EVAPORATION RATE: ESTIMATED SLOWER THAN ETHYL STHER.

VAPOR DENSITY: ESTIMATED HEAVIER THAN AIR. WEIGHT PER GALLON:
10.0 LBS.

FLASH POINT (SETA FLASH CLOSED CUP):

OVER 200 DEG F. (93 DEG C.).

EXPLOSIVE LIMITS:

LOWER:

1%

EXTINGUISHING MEDIA: DRY CHEMICAL, CARBON DIDXIDE, FOAM, OR

WATER FOG. CLASS BC, ABC FIRE EXTINGUISHER.

SPECIAL FIRE FIGHTING PROCEDURES: SELF-CONTAINED POSITIVE PRESSURE

BREATHING APPARATUS AND PROTECTIVE CLOTHING SHOULD BE WORN IN FIGHT-

ING FIRES INVOLVING CHEMICALS.

UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE KNOWN.

STABILITY: STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

INCOMPATABILITY (MATERIALS TO AVOID):

STRONG OXIDIZING AGENTS

WATER, ALCOHOLS, AMINES, ALKALIES, METAL COMPOUNDS (CATALYSTS).

HAZARDOUS DECOMPOSITION PRODUCTS:

CYANIDES AND AMMONIA MAY BE FORMED.

EFFECTS OF OVEREXPOSURE/EMERGENCY AND FIRST AID PROCEDURES (CONTINUED)

iTE: 03/31/88

PAGE:

PRODUCT NUMBER: 711150

PRODUCT NAME: STEPANFOAM G-302-T (MOD.)

EYES: CONTACT WITH EYES IS PAINFUL AND IRRITATING.

FLUSH EYES IMMEDIATELY WITH PLENTY OF WATER FOR AT LEAST

15 MINUTES.

SKIN: PROLONGED OR REPEATED CONTACT WITH SKIN CAUSES IRRITATION WASH OFF SKIN WITH WATER. REMOVE CONTAMINATED CLOTHING AN

CLEAN BEFORE REUSE.

INHALATION: MIST CAUSED BY MANUFACTURING OPERATIONS IRRITATES

NASAL PASSAGES.

IF VAPORS OR MIST CAUSE IRRITATION OR DISTRESS.

REMOVE TO FRESH AIR.

GIVE DXYGEN OR APPLY ARTIFICIAL RESPIRATION,

IF NEEDED.

INGESTION: IF SWALLOWED, CONSULT A PHYSICIAN IMMEDIATELY.

CHRONIC EFFECTS AND MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE: CHRONIC EFFECTS AND MEDICAL CONDITIONS AGGRAVATED BY OVER-EXPOSURE TO THIS PRODUCT HAVE NOT BEEN ESTABLISHED.

UNNECESSARY EXPOSURE TO THIS PRODUCT OR ANY CHEMICAL SHOULD BE AVOIDED.

IF ANY SYMPTOMS PERSIST, CONSULT A PHYSICIAN.

IN A NATIONAL TOXICOLOGY PROGRAM (NTP) STUDY, TDI WAS CARCINO-GENIC WHEN GIVEN DRALLY TO RATS AND MICE AT MAXIMUM TOLERATED DOSES. TDI WAS NOT CARCINOGENIC TO RATS IN A TWO-YEAR INHALATIC STUDY.

SEE SECTION II FOR HAZARDOUS INGREDIENTS PRESENT IN THIS PRODUC AND THEIR CORRESPONDING THRESHOLD LIMIT VALUES.

SECTION VII: SPILL, LEAK, AND DISPOSAL PROCEDURES

CONTAIN ALL SPILLS AND LEAKS TO PREVENT DISCHARGE INTO THE ENVIRONMENT.

VENTILATE AREA.

SMALL SPILLS: SOAK UP WITH ABSORBANT, SHOVEL INTO WASTE CONTAINER,

FLUSH AREA WITH WATER.

LARGE SPILLS: RECOVER LIQUID FOR REPROCESSING OR DISPOSAL.

(CONTINUED)

TE: 03/31/88 PAGE: PRODUCT NUMBER: 711150 PRODUCT NAME: STEPANFOAM G-302-T (MOD.)

WASTE DISPOSAL: RECOVER MATERIAL OR DISPOSE (INCINERATION IS

PREFERRED) IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS. MATERIAL COLLECTED WITH ABSORBANT MAY BE DISPOSED IN A PERMITTED LANDFILL IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS. EMPTY CONTAINER MAY RETAIN VAPOR OR PRODUCT RESIDUE. OBSERVE ALL LABELED SAFEGUARDS UNTIL CONTAINER IS

CLEANED, RECONDITIONED, OR DESTROYED.

EYE PROTECTION: WEAR FULL FACE SHIELD OR GOGGLES WHEN HANDLING. PROTECTIVE GLOVES: USE IMPERVIOUS GLOVES.

RESPIRATORY PROTECTION:

IF VAPORS ARE PRESENT, USE NIOSH OR MSHA APPROVED RESPIRATOR FOR ORGANIC VAPORS, AIR-LINE RESPIRATOR, OR A SELF-CONTAINED BREATHING APPARATUS.

VENTILATION:

USE VENTILATION ADEQUATE TO KEEP HAZARDOUS INGREDIENTS BELOW THEIR TLV (SEE SECTION II).

OTHER PROTECTIVE EQUIPMENT:

WEAR PROTECTIVE CLOTHING TO PREVENT REPEATED OR PROLONGED CONTACT.

EYE WASH STATION AND SAFETY SHOWER SHOULD BE NEAR WORK AREA.

HANDLING AND STORAGE:

AVOID OVERHEATING OR FREEZING.

AVOID OPEN FIRE OR FLAME.

OTHER PRECAUTIONS:

SPILLED MATERIAL IS SLIPPERY. WASH THOROUGHLY AFTER HANDLING. IF INGESTED, CALL A PHYSICIAN.

DO NOT POUR INTO DRAINS, AS SOLIDS THAT FORM WILL PLUG SEWERS.
1% AMMONIA MAY BE USED TO NEUTRALIZE SPILLS.

TE: 03/31/88

PAGE:

PRODUCT NUMBER: 711150

PRODUCT NAME: STEPANFOAM G-302-T (MOD.)

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